C-3104 Betchtop Conductometer

The conductivity is designed to measure specific electrical conductivity (SEC) of acids, alkalis, salts solutions and others, which do not form a film on the sensor electrodes.

The conductivity is equipped with a conductivity sensor with platinized electrodes and an integrated temperature sensor, power supply unit and a tripod.

Scope of application: factory and workshop laboratories at the enterprises of heat and power industry, chemical, petrochemical, pulp and paper, food processing, dairy, brewing and other industries.

Conductivity provides digital display of the measured parameters values and data exchange via digital interface RS-232 or RS-485, as well as archiving and graphical display of measurements results.

Additional functions:

-automatic selection of one of four measuring ranges;

-temperature compensation mode selection, automatic or manual;

-simplified calibration with one solution;

BASIC TECHNICAL SPECIFICATION AND PARAMETERS

SEC measuring range ..... from 0,00 µS/cm to 20,00 mS/cm

(changing the position of the comma and switching the units of measurement is automatic)

Basic absolute accurancy:

-when measuring SEC at a measurement temperature (20 ± 5)°C ..... ± (0.01 x A)

where A is the conductivity readings.

Operating temperature range ..... (+5..+90)°C

Basic absolute accurancy:

Basic absolute accurancy in temperature deviation ..... max ± 0,5°C

Reference temperature for termocompensation[1)] ..... according to the order (default +25°C)

Thermocompensation range relatively the reference temperature ..... ±15°C

Type of display ..... Graphic LCD

Outputs:

- interface RS-232 / ModBus RTU;
- interface RS-485 / ModBus RTU.

The capacity of the archive (the number of records of pairs of values of the main measured parameter (SEC) and temperature) ..... 15872 pts

Archiving interval ..... programmable from 1 sec to 5 min

Archiving time ..... from 4.4 hours to 55 days

Sensor type ..... submersible

Dust and water protection MI enclosures ..... IP54 (front panel)

Climatic version ..... T=(+5..+50)°C

Resistance to mechanical influences in accordance with GOST R 52931 (**Rus**) V2

Power supply ..... ~(100..240)V, (50..60)Hz

Power consumption ..... max 15 VA

Weight ..... max 1 kg

Contents of delivery:

- laboratory conductometer;
- sensor;
- Power Supply;
- tripod

1) The reference temperature of termocompencation (° C) and the temperature coefficient (% per ° C) are set programmatically.

APPEARANCE

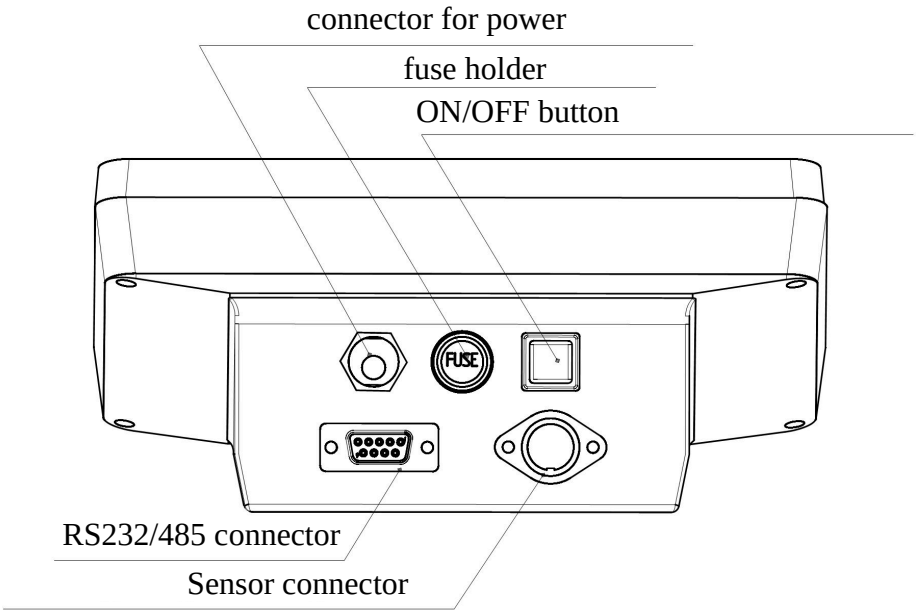

Figure 1. Mutual arrangement of connectors on the rear panel

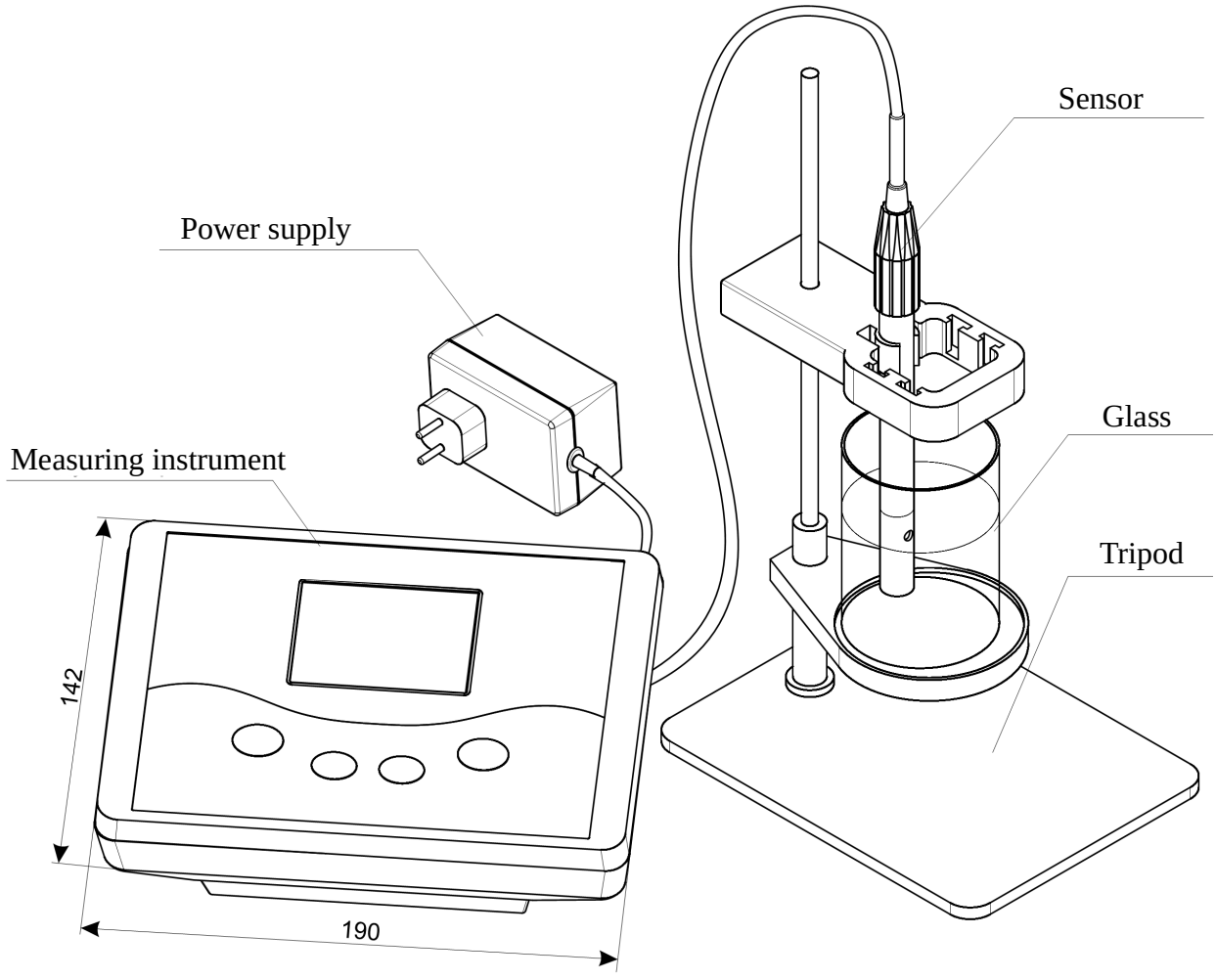

Figure 2. Laboratory conductometer C-3104 in the complete set